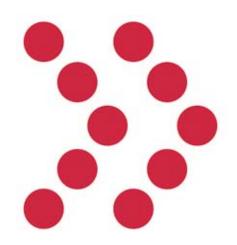
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NMCI Public Key Infrastructure (PKI) User Guide



Update Version 2.0 07/02/2003 NMCI.60092.01.UA0





Revision History

The Revision History table below lists in chronological order each minor revision of this document. A minor revision is defined as a set of changes affecting fewer than 30 percent of the pages in the document.

-1- Date	-2- Author	-3- Revision Number	-4- Change(s) Made	-5- Affected Page(s)

¹Date: date of the revision, listed on the cover page (format: MM/DD/YY)

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²**Author:** person(s) responsible for revising the document (first and last name)

³Revision Number: version number, as listed on the cover page

⁴Change(s) Made: list of modifications (e.g., section added, exhibit revised, paragraph deleted, etc.)

⁵Affected Page(s): list of pages that were revised (e.g., 1, 2, 4-6, etc.)



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1 INTRODUCTION

Welcome to the *NMCI Public Key Infrastructure (PKI) User Guide*. This guide provides information on the process to acquire and use a PKI certificate within the NMCI environment. PKI certificates are required for those users who have an NMCI laptop and those who wish to check their NMCI e-mail from a non-NMCI workstation through Outlook Web Access (OWA). This document will outline the following information and processes concerning PKI certificates:

- What is a PKI certificate and how are they used within the NMCI environment?
- How to request a PKI certificate
- How to download a PKI certificate from the Department of Defense web site
- Using your PKI certificate for NMCI Remote Access Service (RAS)
- Using your PKI certificate for NMCI Outlook Web Access (OWA)
- Frequently Asked Questions (FAQs) about PKI Certificates
- Contact Information and other PKI resources



2 What is a PKI certificate and How are they used within the NMCI environment?

A PKI certificate is an electronic "document" officially linking a user's identity with his/her Public Key. The three types of PKI certificates are as follows:

- <u>Identity</u> Used to digitally sign documents or electronic forms. Identity certificates are also used to authenticate (identify) the user to applications. At a minimum, each individual will obtain an identity certificate.
- <u>Email Signature</u> Used to digitally sign e-mail messages. Email Signature certificates are required only if an organization is using a PKI-enabled e-mail application.
- <u>Email Encryption</u> Used to digitally encrypt e-mail messages. Email Encryption certificates are required only if an organization is using a PKI-enabled e-mail application.

Note: This document outlines instructions for obtaining an identity PKI certificate for use with the Remote Access Service (RAS) for NMCI laptop users and for Outlook Web Access. Email Signature and Email Encryption certificates can be stored on the Common Access Card (CAC). For more information about CAC Badges, visit the "User Information" section on the "Services" tab of the NMCI Homeport or http://www.nmci-isf.com/userinfo.htm.

The identity PKI certificate authenticates a user's identity to the NMCI environment thus allowing access to the NMCI network remotely through use of an NMCI laptop or through Outlook Web Access. By logging into your PKI certificate, authentication to access the NMCI network is granted. Without this authentication, laptop users will be unable to successfully access their NMCI Outlook e-mail and network drives.

Identity PKI certificates are considered "soft certificates" or certificates downloaded from the Department of Defense (DoD) website and stored on a floppy disk, not the user's Common Access Card (CAC). For NMCI laptop users, the identity PKI certificate must be copied from the floppy disk onto the hard drive of the laptop. For users who wish to utilize Outlook Web Access (OWA) to check their NMCI e-mail from a non-NMCI computer, the certificate is loaded off the floppy disk and onto the Internet browser of the workstation.



3 How to Request a PKI Certificate

To obtain a PKI certificate, the IT Point of Contact (IT POC) or Customer Technical Representative (CTR) must grant approval for a command or location. The information below outlines the responsibilities of each individual with respect to the issuance of PKI certificates under NMCI.

3.1 CUSTOMER TECHNICAL REPRESENTATIVE (CTR)

<u>Responsibilities:</u> The CTR determines those users who will receive a PKI certificate. All NMCI laptop users must have a PKI certificate to remotely dial into the NMCI. For those users who wish to check their NMCI e-mail from a non-NMCI workstation, the CTR, at their discretion or the discretion of the Commanding Officer, will determine and submit the names of those users (in addition to NMCI laptop users) to the NMCI Local Registry Authority (LRA).

3.2 NMCI LOCAL REGISTRY AUTHORITY (LRA)

<u>Responsibilities:</u> The NMCI LRA for a location is responsible for generating PKI certificates for users identified by the CTR or Commanding Officer. Upon creation of the certificate, the LRA will print out a Certificate Registration Instruction Sheet (CRI) for each user. The LRA or Trusted Agent (an individual within the command authorized by the LRA to issue PKI certificates to users) will then meet with each user to distribute the CRI.

3.3 NMCI USERS

Responsibilities: Users need to meet with the LRA or a Trusted Agent. Since PKI certificates involve security privileges, users must present two forms of government issued identification and sign for the Certificate Registration Instruction Sheet (CRI) from the LRA or Trusted Agent. The CRI contains the "User Number" and "Access Code" allowing each user access to and permission to download their PKI certificate. Once the user has the CRI, they can download the PKI certificate following the instructions outlined below or on the *PKI Certificate Download Quick Reference Guide* available at http://www.nmci-isf.com/userinfo.htm or under the "User Information" section of the "Services" tab of the NMCI Homeport.



4 HOW TO DOWNLOAD YOUR PKI CERTIFICATE

This section describes the procedure for downloading your PKI certificate.

4.1 PKI CERTIFICATE DOWNLOAD INSTRUCTIONS

It is important to use Netscape Navigator browser to download your certificate. **Do NOT use Internet Explorer.**

Procedures

Open Netscape and access the Department of Defense (DoD) Public Key Infrastructure (PKI) homepage using either of the following addresses:



http://reg.c3pki.chamb.disa.mil

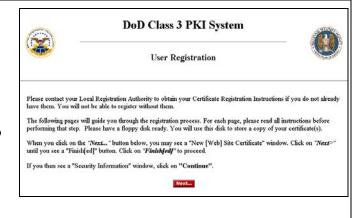
or

http://reg.c3pki.den.disa.mil

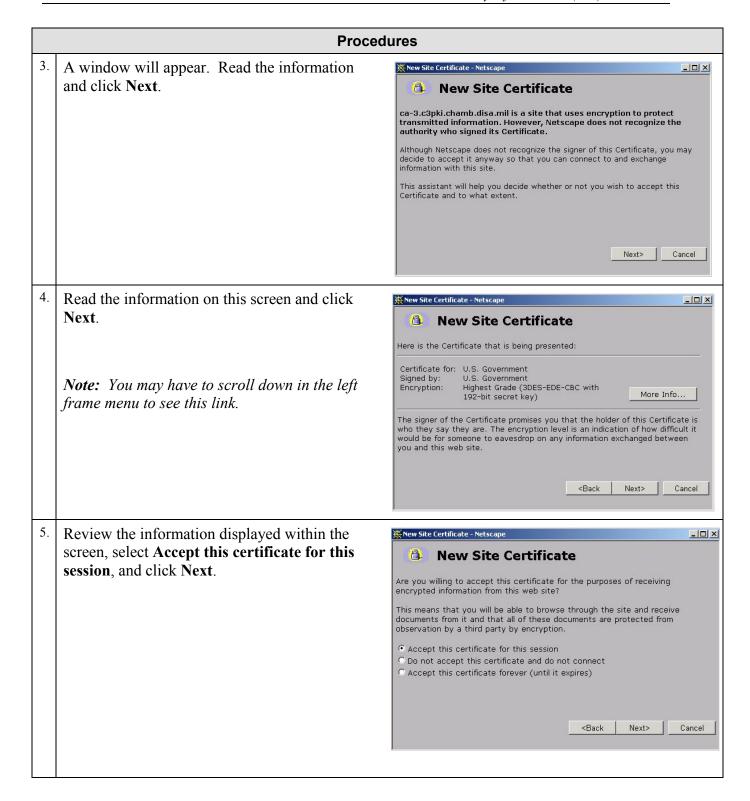
Note: It is recommended to access these sites during the morning hours due to high volume of users during the afternoon.

 Within the DoD Class 3 PKI System User Registration page, review the information and click Next.

Note: Depending on which certificates are installed on your machine, you may not see steps 3-6. If you do not see these screens skip to Step 7.



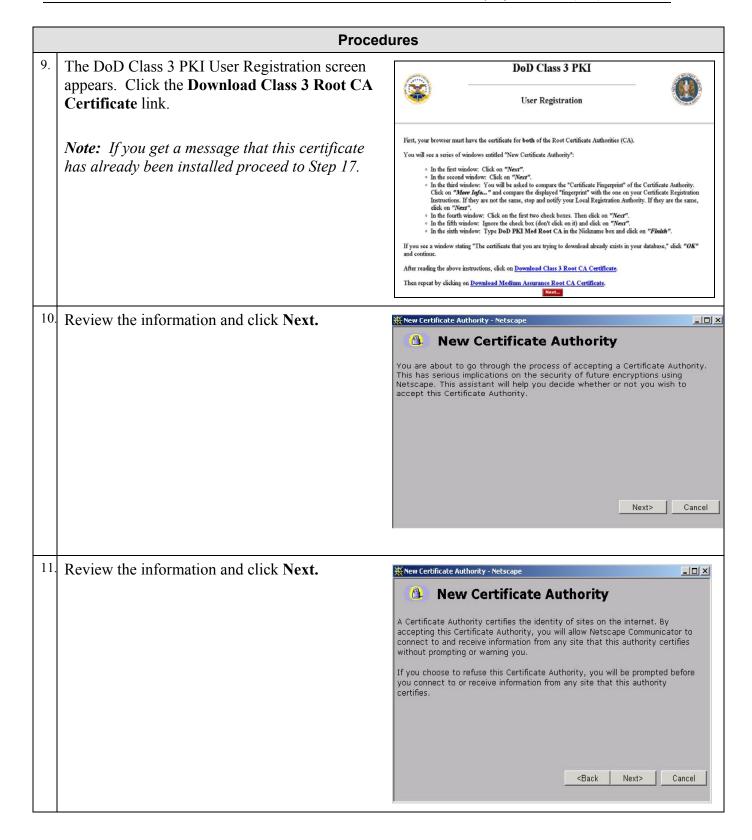




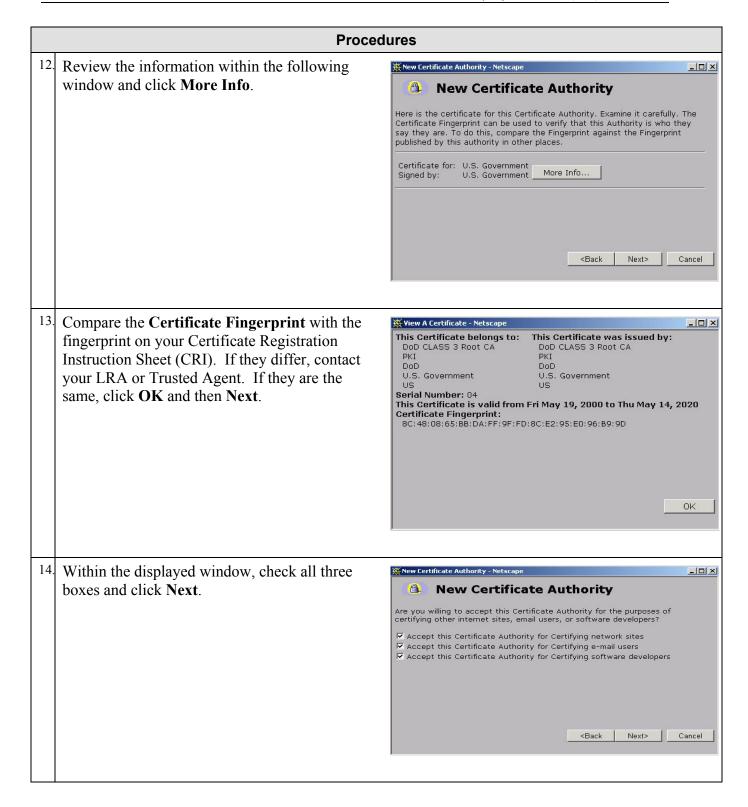


Procedures Within the following screen, ensure the **Warn** ∰New 5ite Certificate - Netscape me before I send information to this site box **New Site Certificate** is **NOT CHECKED** and click **Next**. By accepting this certificate you are ensuring that all information you exchange with this site will be encrypted. However, encryption will not protect you from fraud. To protect yourself from fraud, do not send information (especially personal information, credit card numbers, or passwords) to this site if you have any doubt about the site's integrity. For your own protection, Netscape can remind you of this at the appropriate ☐ Warn me before I send information to this site <Back Next> Cancel On the window indicating "You have finished ₩ New Site Certificate - Netscape examining the certificate presented by..." click **New Site Certificate** Finish. You have finished examining the certificate presented by: ca-3.c3pki.chamb.disa.mil You have decided to accept this certificate and have decided not to have Netscape Communicator warn you before you send information to this site. If you change your mind, open Security Info from the Communicator Menu edit Click on the Finish button to begin receiving documents. Cancel Finish <Back The **Security Information** window appears. Security Information × Ensure the **Show this Alert Next Time** box is checked and click Continue. You have requested a secure document. The document and any information you send back are encrypted for privacy while in transit. For more information on security choose Document Information from the View menu. Show This Alert Next Time Cancel Continue





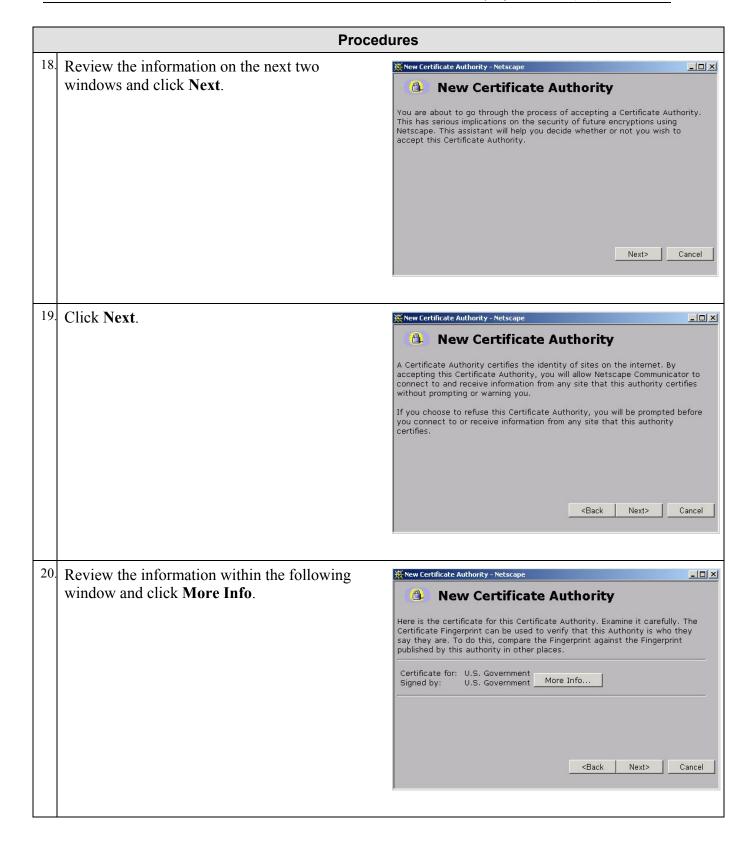




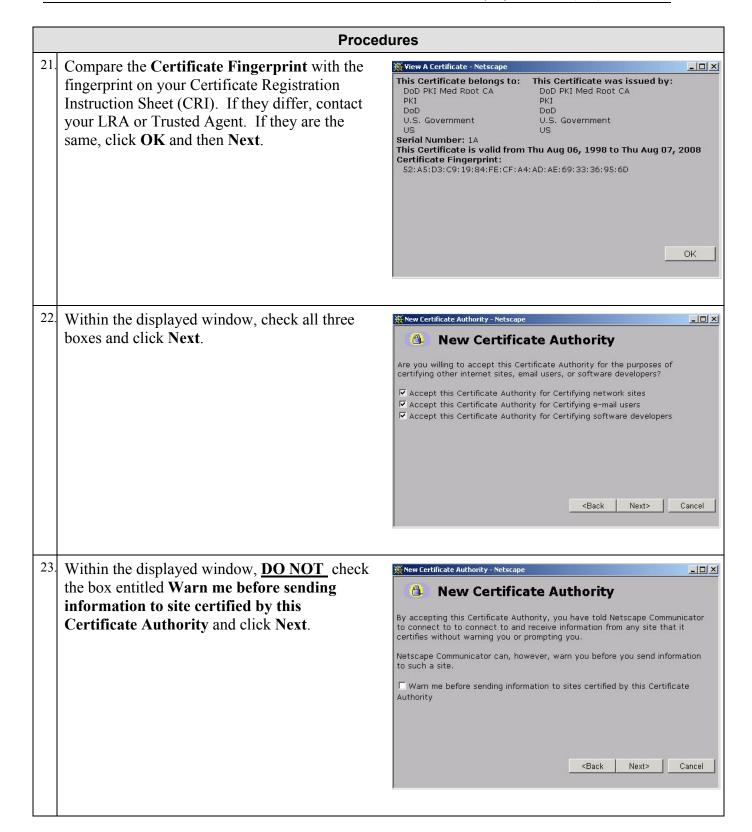


Procedures 15. Within the displayed window, **DO NOT** check **New Certificate Authority - Netscape _ | X the box entitled Warn me before sending **New Certificate Authority** information to site certified by this By accepting this Certificate Authority, you have told Netscape Communicator Certificate Authority and click Next. to connect to to connect to and receive information from any site that it certifies without warning you or prompting you. Netscape Communicator can, however, warn you before you send information oxdot Warn me before sending information to sites certified by this Certificate Authority Cancel 16. Within the displayed window, type **DOD PKI** X New Certificate Authority - Netscape _ | X Class 3 Root and click Finish. **New Certificate Authority** You have accepted this Certificate Authority. Please enter a short name to identify this Certificate Authority, for example Netscape Corporate CA. Name: DOD PKI Class 3 Root <Back Finish Cancel 17. The DoD Class 3 PKI User Registration page DoD Class 3 PKI will appear. Click **Download Medium** User Registration **Assurance Root CA Certificate.** *Note:* If you receive a message indicating this First, your browser must have the certificate for both of the Root Certificate Authorities (CA). certificate has already been installed, proceed You will see a series of windows entitled "New Certificate Authority": to Step 25. o In the first window: Click on "Next". In the first window: Click on "Next". In the second window: Click on "Next". In the third window: You will be asked to compare the "Certificate Fingerprint" of the Certificate Authority. Click on "Move Infa..." and compare the displayed "fingerprint" with the one on your Certificate Registration Instructions. If they are not the same, stop and notify your Local Registration Authority. If they are the same, efick on "Next". In the fourth window: Click on the first two check boxes. Then click on "Next". In the sixth window: Ignore the check box (don't click on it) and click on "Next". In the sixth window: Type DoD PKI Med Root CA in the Nickname box and click on "Finish". If you see a window stating "The certificate that you are trying to download already exists in your database," elick "OK" After reading the above instructions, click on Download Class 3 Root CA Certificate. Then repeat by clicking on Download Medium Assurance Root CA Certificate.





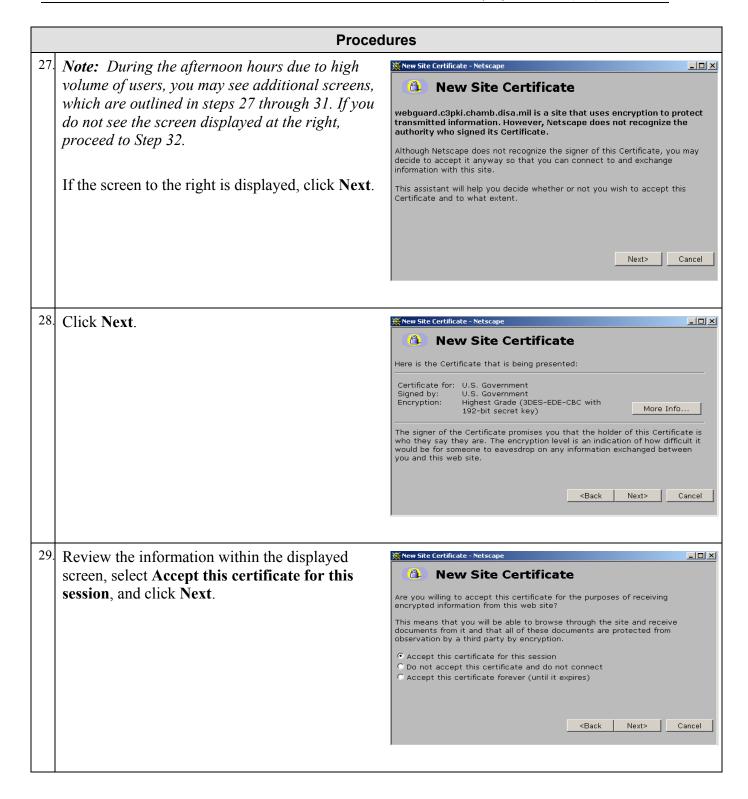




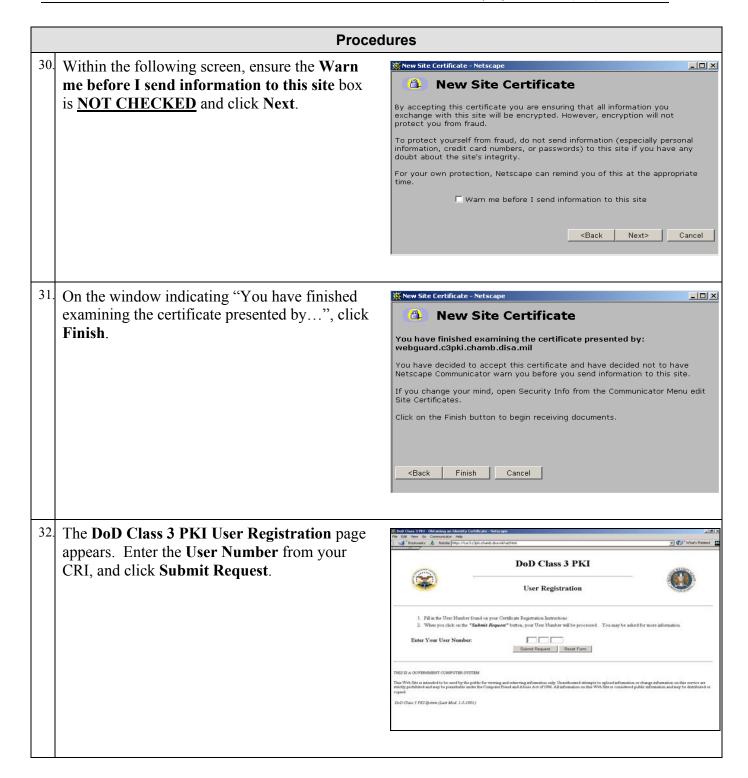


Procedures 24 Within the displayed window, type **DOD PKI** ∰New Certificate Authority - Netscape _ | X Med Assurance and click Finish. **New Certificate Authority** You have accepted this Certificate Authority. Please enter a short name to identify this Certificate Authority, for example Netscape Corporate CA. Name: DOD PKI Med Assurance Finish Cancel <Back 25. The DoD Class 3 PKI User Registration page DoD Class 3 PKI will appear. Click Next. User Registration First, your browser must have the certificate for both of the Root Certificate Authorities (CA). You will see a series of windows entitled "New Certificate Authority": In the first window: Click on "Next". In the second window: Click on "Next". In the scond window: Click on "Next". In the third window: You will be asked to compare the "Certificate Fingerprint" of the Certificate Authority. Click on "Move Info..." and compare the displayed "Ingerprint" with the one on your Certificate Registration Instructions. If they are not the same, stop and notify your Local Registration Authority. If they are the same, elick on "Next". In the forth window: Click on the first two check boxes. Then elick on "Next". In the fifth window: In Interest the Interest of the Inte If you see a window stating "The certificate that you are trying to download already exists in your database," eliek "OK" and continue. After reading the above instructions, click on **Download Class 3 Root CA Certificate**. Then repeat by clicking on Download Medium Assurance Root CA Certificate. On the displayed window, click the CA indicated on your CRI form. DoD Class 3 PKI User Registration Select the Certificate Authority identified on your Certificate Registration Instruction - CA-4 b) See is intended to be used by the public for viewing and retireving information only. Unsuthorned attempts to upload information on change information on this service we probable under the Computer Freud and Abuse Act of 1926. All information on this Web Site is considered public information and may be distributed or DoD Class 3 PKI Bestem(Last Mod. 05-26-2000)











Procedures

Within the following screen, enter the **Access**Code from your CRI, and click **Submit**Request.



The Generate A Private Key screen appears. Click **OK**.

Note: If a password is already configured, you will go directly to the screen displayed in Step 37.





Procedures

- 35. Within the **Setting Up Your Communicator Password** screen, create a password for your
 PKI certificate and enter it in twice. Your PKI
 password must meet the following requirements:
 - The password must be at least eight characters.
 - It must contain both upper and lower case letters and at least one number.
 - The password should not be a word or name.
 - Do not use your NMCI network password.
 - This password is valid for 3 years.

Note: The next window that appears will notify you the Certificate Request is being generated. Please wait for this screen to close. When this window disappears, your certificate has been successfully acquired.

Setting Up Your Communicator Password - Netscape

Setting Up Your Communicator Password

It is strongly recommended that you protect your Private Key with a Communicator password. If you do not want a password, leave the password field blank.

The safest passwords are at least 8 characters long, include both letters and numbers, and contain no words from a dictionary.

Password:

Type it again to confirm:

Important: Your password cannot be recovered. If you forget it,

More Info...

OK Cancel

36. The **DoD Class 3 PKI System User Registration** page will display. Please review this information.





Procedures

Within the Netscape window, click the **Security** button in the Netscape toolbar. The second screen displayed on the right will appear. Click on **Yours** under the **Certificates** heading.



OK Cancel Help

38. Under the window entitled **These are your** certificates, highlight your certificate and click **Export**.

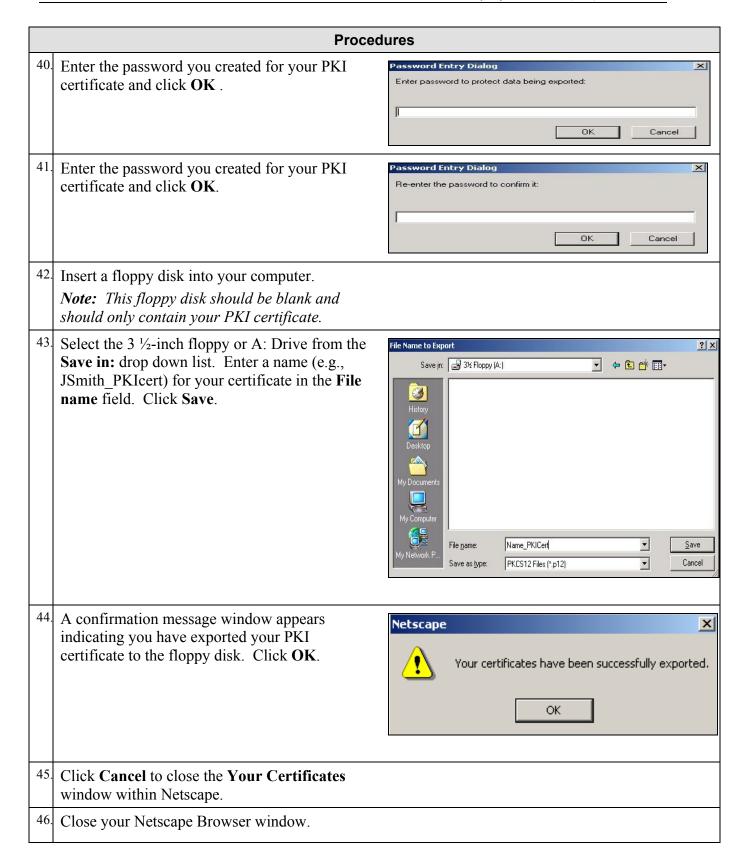


39. Within the following screens, you will be asked to enter in a password.

Enter the password you created for your PKI certificate and click **OK**.









5 USING YOUR PKI CERTIFICATE FOR NMCI REMOTE ACCESS SERVICE (RAS)

For NMCI laptop users, a PKI certificate is needed to allow access to the NMCI network when working remotely. A copy of your PKI certificate must be stored on the hard drive of your laptop so you can log into your certificate and authenticate your identity to the NMCI network. By authenticating your identity to the NMCI network through your PKI certificate, you can access your NMCI e-mail account and your network drives. To load your PKI certificate onto the hard drive of your workstation complete the following steps:

Note: The instructions below are associated with a new version of the Virtual Private Network (VPN) software called Alcatel used with your PKI certificate. You may have the previous version this VPN software called Timestep on your workstation. If you have not received the new Alcatel software, this update will occur shortly. The instructions apply for both versions of the software.

- 1. Insert your floppy disk containing your PKI certificate into the floppy drive of your workstation.
- 2. Browse the floppy disk drive, highlight your certificate by right clicking on it, and select **Copy** from the menu that appears.
- 3. Locate the Certs folder on your NMCI workstation through the following path:

C:\Program Files\Alcatel\Certs

Note: If your workstation has the Timestep application installed instead of Alcatel, locate the certs folder through the following path:

C:\Program Files\Timestep\Certs

Note: If you do not have a Certs folder, create one yourself and proceed to the next step.

4. Open the Certs folder and select **Paste**. This will place a copy of your PKI certificate into that folder on your hard drive.

If you require assistance on locating the Cert folder or copying the PKI certificate into that folder, please contact the NMCI Help Desk at 1-866-THE-NMCI or 1-866-843-6624. For instructions on how to use the NMCI Remote Access Service (RAS) with your NMCI laptop review the RAS portion of the "User Information" section available on the "Services" tab of the NMCI Homeport or visit www.nmci-isf.com/userinfo.htm.



6 USING YOUR PKI CERTIFICATE FOR NMCI OUTLOOK WEB ACCESS (OWA)

PKI certificates are also needed if you wish to access your NMCI e-mail account from a non-NMCI workstation (such as your home computer). Outlook Web Access (OWA) will allow you to read and send Outlook e-mail from a non-NMCI workstation. Users of OWA need to carry their PKI certificate on a 3.5-inch floppy disk to load into the Internet browser of the non-NMCI workstation. Instructions on how to load your PKI from your disk to a non-NMCI workstation are available on the "User Information" section available on the "Services" tab of the NMCI Homeport or visit www.nmci-isf.com/userinfo.htm to access the "Outlook Web Access" section.



7 FREQUENTLY ASKED QUESTIONS (FAQS) ABOUT PKI

The following questions outline some important reminders about your PKI certificate.

What if I already have a PKI certificate?

If you have had a PKI certificate issued to you before the NMCI transition process, please contact the NMCI Local Registry Authority (LRA) to validate your status. The LRA will provide you with additional information surrounding the issuance or re-issuance of a PKI certificate.

What if I lose my PKI certificate?

Since your PKI certificate is secure document assigned to you, it needs to be handled properly. If you lose your PKI certificate or if your PKI password becomes compromised, contact the PKI Help Desk at 1-800-582-4764, your NMCI LRA, or your Customer Technical Representative (CTR) immediately. The certificate will be revoked and a new certificate will be issued.

How long is a PKI certificate valid?

Your PKI certificate is valid for 3 years. Additionally, the password you assign to your certificate will not expire.

What if I forget my PKI password?

If you forget your PKI password, the certificate will need to be revoked and a new certificate will be issued.

Can I make a copy of my PKI certificate onto another floppy disk?

Although not recommended for security reasons, additional copies of your certificate can be placed onto additional floppy disks or to a CD.



8 Contact Information and Other PKI Resources

The following resources are available if you have additional questions about PKI certificates.

- For a listing of the NMCI Local Registry Authorities (LRAs) visit the "User Information" section of the "Services" tab of the NMCI Homeport or access www.nmci-isf.com/userinfo.htm and review the PKI/CAC section.
- Contact the PKI Help Desk: 1-800-582-4764 (located in Chambersburg, PA, available 24 hrs a day, 7 days a week)
- Contact the NMCI Help Desk: 1-866-THE-NMCI (1-866-843-6624)